

Invited Speakers

Henry Abarbanel UC-San Diego

Larry Abbott Brandeis University

Michael Brainard UC-San Francisco

Dmitri Chklovskii Cold Spring Harbor Lab

Allison Doupe UC-San Francisco

Michale Fee MIT

Lawrence Katz
Duke Univ. Medical Center

Nancy Kopell Boston University

Gilles Laurent Cal Tech

Daniel Margoliash University of Chicago

Markus Meister Harvard University

Hermann Riecke Northwestern University

H. Sebastian Seung MIT

Charles Stevens Salk Institute

Frontiers in Biological Physics III: Neural Biology ICAM SYMPOSIUM

June 18-20, 2004 - Aspen, Colorado

Appreciation for theoretical approaches in biology has been increasing over the past decade as biologists have recognized that many problems in integrative biology require theory and physicists have been caught up in the excitement generated by rapid advances in biological research. Neurobiology is an area of special interest in this context because the challenges offered by the brain, this most complex machine, seem especially suited to theory. The goal of this symposium is to survey some areas of neurobiology that seem most in need of theory, and to explore some of the theoretical approaches that have been especially successful. The speakers will provide background information to make the material accessible to those without training in biology. Areas covered with include bird song, vision, the olfactory system, motor control, and networks.

The workshop is sponsored by the Institute for Complex Adaptive Matter (ICAM), a distributed "Institute without Walls", an independent unit of the University of California, devoted to the search for the organizing principles that govern Emergent Behavior in Matter, be it biological, chemical, or physical and is supported by a Grant from the National Science Foundation.

For more information, visit http://icam.ucop.edu/workshops.html



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